FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/11/03 Date Received: 07/24/03

Project: Metro Self Monitor, PO# M20285, F&BI 307215

Date Extracted: 08/06/03 Date Analyzed: 08/06/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	<u>Chromi</u> ı	<u>ım Copper</u>	<u>Nickel</u>	<u>Zinc</u>
Laboratory ID				
M20285	0.47	0.41	0.50	<0.05
307215-01				
Method Blank	< 0.05	< 0.05	<0.1	< 0.05

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 308002-01 (Duplicate)

하시아 그러워 있게 얼마나라를 모하다				Relative	
분들님하면 회사들 없다면 보여	Reporting	Sample	Duplicat	e Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	< 0.05	< 0.05	nm	0-20
Copper	mg/L (ppm)	2.3	2.3	0	0-20
Nickel	mg/L (ppm)	< 0.1	< 0.1	nm	0-20
Zinc	mg/L (ppm)	0.79	0.76	4	0-20

Laboratory Code: 308002-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Accep	tance
Analyte	Units	Level	Result	MS	Crit	eria
Chromium	mg/L (ppm)	2	< 0.05	100	80-	120
Copper	mg/L (ppm)	2	2.3	87	80-	120
Nickel	mg/L (ppm)	4	< 0.1	99	80-	120
Zinc	mg/L (ppm)	2	0.79	94	80-	120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recov	ery % Recove	ery A	cceptanc	e RPI)
Analyte	Units	Level	LCS	LCSD	A Mark Street	Criteria	(Limit	20)
Chromium	mg/L (ppm)	2	107	105		80-120	2	- 45E
Copper	mg/L (ppm)	2	105	105		80-120	0	
Nickel	mg/L (ppm)	4	104	105		80-120	1	
Zinc	mg/L (ppm)	2	104	106		80-120	2	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

307215

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SAMPLE CHAIN OF CUSTODY

CM 07/24/03 ATI

Send Report To LERAD Thompson					Shaff re									TURNAROUND TIME						
Company ALASKAN Copper works					PROJECT NAME/NO. PO #								☐ Standard (2 Weeks) ☐ RUSH							
Address 628 S. Harring ST				METRO SECT moniton M20285							5	Rush charges authorized by:								
Address <u>OZO</u> 3. /	1 HARONC	30		REMARKS								\dashv	SAMPLE DISPOSAL							
City, State, ZIP Seadle as 98/34			IUDMA	umo										☐ Dispose after 30 days						
Phone # 206 187-8779 Fax # 206- 382-4309			4309												rn samples call with instructions					
					ANALYSES REQUESTED											- -				
				T								T	7	LQU.	ESTED					5 or 2
* * * * * * * * * * * * * * * * * * * *							esel	olin	3021	826	827		25.20	.						
Sample ID	Lab ID	Ďate	Time	Samp	le Type	# of containers	TPH-Diesel	Gas	by 8	s by	s by	HFS	3	.					Notes	
							TPF	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270		3	- 1						
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Friedman & Bruya, Inc.		SIGNATU	RE		\sim	PRINT	NA	ME						MPA	NY	•		DATE	TIME]
3012 16th Avenue West	Relinquished			of Thompson					ACh Fryg				1:00pm							
Seattle, WA 98119-2029	Received by:	6-11	Jella	abs Tava E. Debraff For					a E	3I			0-	1/24/1	1:05	pr				
Ph. (206) 285-8282	Relinquished by	<i>y</i> :		10						·····										
Fax (206) 283-5044	Received by:														7					

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

August 11, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 24, 2003 from the Metro Self Monitor, PO# M20285, F&BI 307215 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow

Charlene Morrow

Chemist

Enclosures ACU0811R.DOC